Simplicial surfaces in GAP

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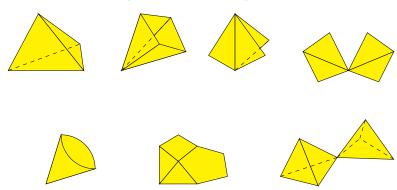
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2 Edge colouring and group properties

Edge colouring and group properties

Motivation

Goal: simplicial surfaces (and generalisations) in GAP



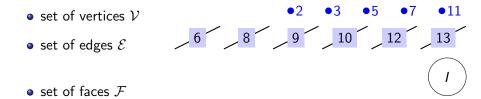
→ examples of polygonal complexes

No embedding

We do not work with embeddings (mostly)

- is very hard to compute
- if often unknown for an abstractly constructed surface
- is different from intrinsic structure
- ⇒ lengths and angles are not important
- → incidence structure is intrinsic

Incidence structure



2 Edge colouring and group properties

Edge colouring and group properties